

Patent Abstracts of Japan

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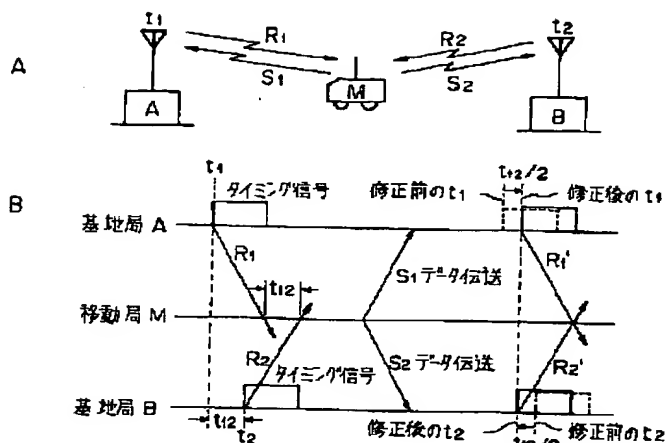
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TITLE : MOBILE COMMUNICATION SYSTEM  
BASE STATION SYNCHRONIZING  
METHOD



ABSTRACT : PURPOSE: To easily establish frame timing synchronization between base stations in a mobile communication system, based upon autonomous decentralized control, without requiring any special facilities.

CONSTITUTION: A mobile machine M interposed in the middle between the base stations A and B receives both a sent wave  $R_1$  sent from the base station A at the time  $t_1$  and a sent wave  $R_2$  sent from the base station B at the time  $t_2$ , detects the reception timing difference  $t_{12}$  of  $R_2$  from  $R_1$ , and sends the timing difference  $t_{12}$  to the base stations A and B through radio lines  $S_1$  and  $S_2$ . The base station A delays the transmission timing of a sent signal  $R_1'$  by  $\mu t_{12}$  and the base station B advances the transmission timing of a sent signal  $R_2'$  by  $\mu t_{12}$ , where  $\mu$  is a positive value.

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